

ABSTRACT OF THE DISCLOSURE

5 A system and method for adding routing information
for a node to a routing table, which efficiently makes
necessary changes to the routing table to support routing
to and from the node, while maintaining the deadlock-free
quality of the paths described by the routing table. The
routing table is generated by storing routing information
in the routing table that reflects and describes a
10 deadlock-free set of paths through a network of nodes. A
row of entries is added to the routing table describing
how to forward data units from the node. A column of
entries is added to the routing table describing how to
forward data units addressed to the node. The forwarding
15 information within each entry added to the routing table
maintains the deadlock-free quality of the set of paths
represented by the forwarding table.

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